

22-cv-02299-LGS

Network Data Rooms, LLC v. Saulrealism LLC et al
 Independent Expert Review of Additional Questions
 Terry Patterson, Expert Reviewer

Scope of Review Summary for Supplemental Report

Timelines for documents and instructions received

Date	Description	email received from / sent to
6/21/2022	Received email requesting a supplemental report completed by 6/30/2022. Email included 3 PDF attachments. 1. Court Order re-supplemental report 2. Saul Letter requesting clarification 3. NDR Letter Re-Additional Question	Allyn & Fortuna LLP
6/21/2022	Responded that I was able to complete the report by 6/30/2022.	Allyn & Fortuna LLP
6/23/2022	Confirmed that I had access to the NDR Office 365 tenant to perform the review for supplemental report.	Allyn & Fortuna LLP
6/23/2022	Employer approved my work extension authorizing me to work on the project.	Employer
6/24/2022	Confirmed that I had the required Admin Roles and Permissions on the NDR tenant to perform the review for supplemental report.	Allyn & Fortuna LLP
6/28/2022	Request access to Azure DevOPS and Developer Virtual Machine to review, confirm and provide documentation for the additional questions.	Allyn & Fortuna LLP

Timelines for supplemental report validations and documentation

Date	Description	Comments / Hours worked
6/25/2022	Reviewed the three attachments: 1. Court Order re-supplemental report 2. Saul Letter requesting clarification 3. NDR Letter Re-Additional Question	2 hours reviewing documents & creating word template for supplemental report
6/25/2022	Connect to Office 365 and perform multiple eDiscovery searches for Teams Meetings. Document findings	4 hours for eDiscovery searches and validations and documenting findings
6/28/2022	Connect to azure DevOPS and Developer Virtual Machine to validate and document the environments. Documented Findings	5 hours for connecting to Azure DevOPS, Developer Machine to validate and document findings.

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6/29/2022	Complete report and submit for approvals	4 hours Finalize and submit Report
6/30/2022	<p>I updated the term "PC" to "Virtual Machine" for my response in this report which is the correct terminology for the system assigned to the developer in the NDR Azure tenant.</p> <p>Personal Computer (PC) is typically a physical computer used to access a Virtual Machine.</p>	1 hour Updated terminology and review.

The following questions were obtained from the Case 1:22-cv-02299-LGS Document 50 Filed 06/14/22.

<i>Ref No</i>	Scope of Review: Case 1:22-cv-02299-LGS Document 50 Filed 06/14/22
1.1	Does an administrator have the capability to modify the password, security code, and/or multifactor authentication credentials (i.e., change of phone number) for a developer account? If so, which administrators have this capability? Does David Delorge as the "One Global Admin" have this capability?
1.2	On page 8 of the report, you assess that Ryan Saul must have downloaded the code to a PC to make changes and complete builds. Is there any data on the virtual machine that indicates that Ryan Saul downloaded the code on the virtual machine at any time during his consultant work from December 2020 through his termination in January 2022?
1.3	On page 11 of the report, you show a screen print of the virtual machine specifically for folder Windows>>code>>new>>NDR-2021. Is this the newest activity within the "code" folder? Are there any newer files within the contents of the remaining folders, entitled "ndr_Backend", "ndr_frontend", "ndr_frontend_v2," or anywhere else on the virtual machine?
1.4	On page 20 of the report, it summarizes that there were no decompiled source comments made to the Azure DevOps repository after 9/26/2021. It further states that there were no deletes made in the NDRs Azure DevOps repositories, and that the repository logs cannot be altered. In support, a screen print of the "Dealtale Development" branch is shown. Based upon that one screen print, is your assessment limited to that no decompiled code was deposited to the "Dealtale Development" branch, and that branch's repository log cannot be altered?

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- 1.5 Can entire branches of code be deleted? Would a deleted branch appear in the current branches folder? Was there any attempt to search for an “exact match in deleted branches” for branches “Net Roadshow” or “Net Road Show?” (see, <https://docs.microsoft.com/en-us/azure/devops/repos/git/restore-deleted-branch?view=azure-devops>).
- 1.6 If a branch is deleted, are there any logs regarding the commit history?
- 1.7 Are audit logs available for the creation and deletion of branches?
- 1.8 Can branches be permanently deleted without the possibility of restoration? Can Azure DevOps be “rolled-back” to reflect earlier instances in time, where a branch was developed but is no longer accessible?
- 1.9 Is it possible that code could have been deployed from NDR’s Azure repository on 1/13/2022, and that the runtime code does not reflect the current code within the Azure repository?
- 1.10 Page 14 of the report shows a excel spreadsheet of the screen print of code runtime components on the web site. How was this spreadsheet generated? Does it demonstrate any other dates where there was a website build? When was the last date prior to 1/13/2022 where there was a website build?
- 1.11 Page 24 of the report shows a screen print of the Visual Studio publishing methods on the virtual machines. Are there any logs on the virtual machine’s Visual Studio that demonstrate Ryan Saul developed code, committed code to NDR’s Azure repository, or published code to the website at any time during his consultant work from December 2020 through his termination in January 2022?

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The following questions were obtained from the Case 1:22-cv-02299-LGS Document 51 Filed 06/14/22.

Ref No	Scope of Review: Case 1:22-cv-02299-LGS Document 51 Filed 06/14/22
2.1	Review, assess, and report on the time, frequency and participants involved in MS teams daily scrub meetings held between September 26,2021 and January 18,2022.

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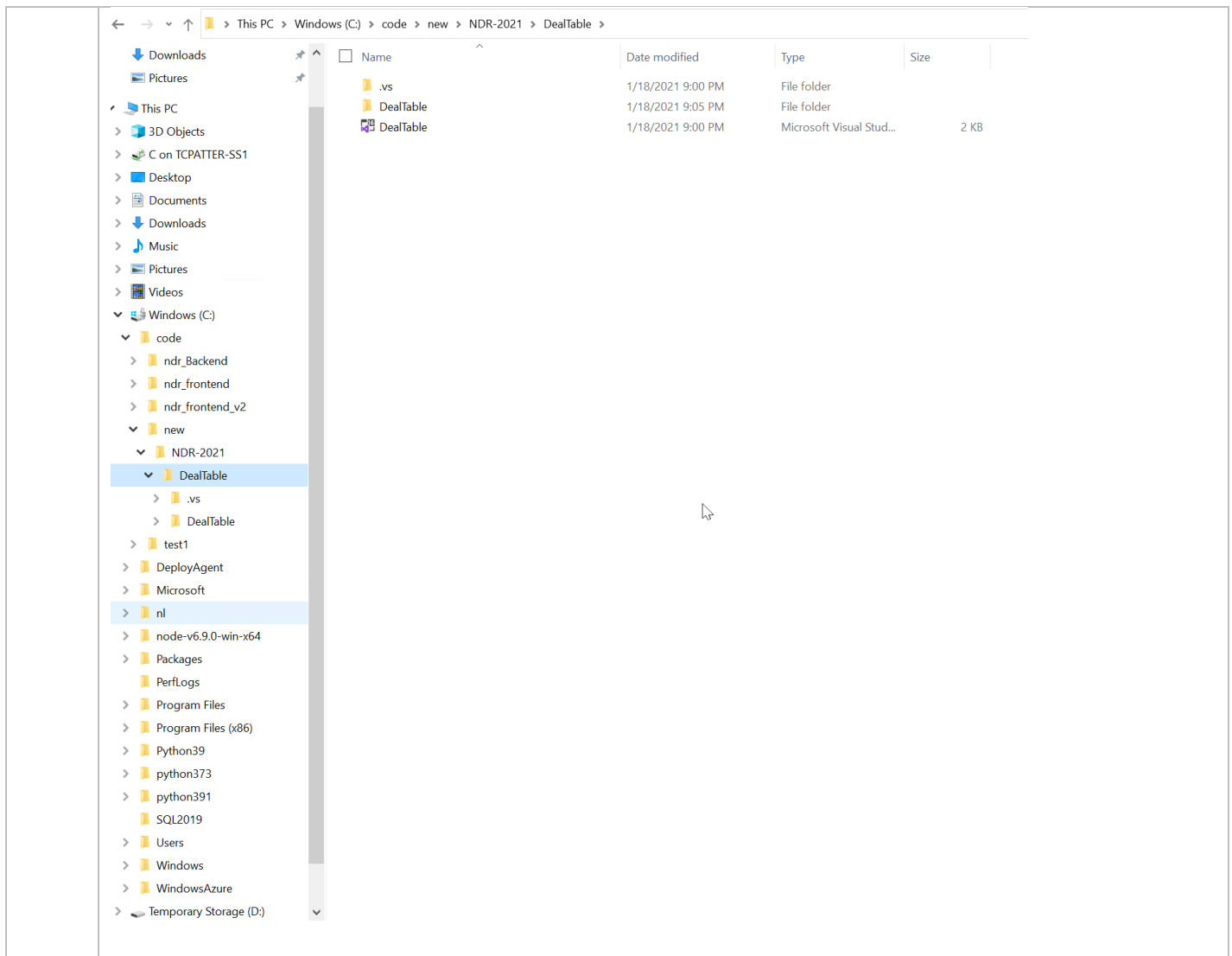
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The following responses address questions included in the Case 1:22-cv-02299-LGS Document 50 Filed 06/14/22.

Ref No	Description Reference Link Screen Print
1.1	Does an administrator have the capability to modify the password, security code, and/or multifactor authentication credentials (i.e., change of phone number) for a developer account? If so, which administrators have this capability? Does David Delorge as the "One Global Admin" have this capability?
1.1.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. An Office 365 Global Administrator role can modify the password and change the multifactor authentication credentials including phone number for a developer account. <p><u>Reviewer Summary</u></p> <ol style="list-style-type: none"> 1. I have assessed that David Delorge is assigned as a Global Administrator Role and would have been able to modify the password and change the multifactor authentication credentials including phone number for the developer account.
1.2	On page 8 of the report, you assess that Ryan Saul must have downloaded the code to a PC to make changes and complete builds. Is there any data on the virtual machine that indicates that Ryan Saul downloaded the code on the virtual machine at any time during his consultant work from December 2020 through his termination in January 2022?
1.2.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. I scanned all the directories on the developer Virtual Machine and did not find any data on the Virtual Machine that indicated code was downloaded to the developer assigned virtual machine after 1/18/2021. <p><u>Reviewer Summary</u></p> <ol style="list-style-type: none"> 1. I did not find any data on the Virtual Machine that indicates Ryan Saul downloaded code at any time to this Virtual Machine after 1/18/2021. There were some outdated versions on the Virtual Machine created in the months of December 2020 and January 2021 but no data showing any code downloads were made to this Virtual Machine after the date 1/18/2021.
1.2.2	<i>Screen print from Virtual Machine showing old code with last updated date 1/18/2021</i>

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Windows (C:) > code > new > NDR-2021 > .git >				
<input type="checkbox"/> Name	Date modified	Type	Size	
hooks	1/18/2021 8:58 PM	File folder		
info	1/18/2021 8:58 PM	File folder		
logs	1/18/2021 9:00 PM	File folder		
objects	1/18/2021 8:58 PM	File folder		
refs	1/18/2021 9:00 PM	File folder		
config	1/18/2021 9:00 PM	File	1 KB	
description	1/18/2021 8:58 PM	File	1 KB	
HEAD	1/18/2021 9:00 PM	File	1 KB	
index	1/18/2021 9:00 PM	File	49 KB	
ms-persist	1/18/2021 9:02 PM	XML Document	1 KB	
packed-refs	1/18/2021 9:00 PM	File	1 KB	

1.3 On page 11 of the report, you show a screen print of the virtual machine specifically for folder Windows>>code>>new>>NDR-2021. Is this the newest activity within the “code” folder? Are there any newer files within the contents of the remaining folders, entitled “ndr_Backend”, “ndr_frontend”, “ndr_frontend_v2,” or anywhere else on the virtual machine?

1.3.1 Reviewers Comments

1. I checked every folder on the Virtual Machine and there was no code on the Virtual Machine with a date later than 1/18/2021
2. I check the dates in all folders and the git folder in the code libraries which keeps a local records of code upload and downloads.
3. I also checked all folders and sub folders for “ndr_backend”, “ndr_frontend”, “ndr_frontend_v2” and “test1\ ndr_frontend_v2” and found there was no code in these folders with a date later than 1/18/2021

Reviewer Summary

1. I have assessed that no code exists in any folder on this Virtual Machine with a date later than 1/18/2021 and that the Windows>>code>>new>>NDR-2021 is the newest activity within the code folder on the Virtual Machine.

1.3.2 *Screen print from Virtual Machine showing NDR backend code with last updated date 12/22/2020*

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Windows (C:) > code > ndr_Backend >

<input type="checkbox"/> Name	Date modified	Type	Size
<input checked="" type="checkbox"/> .git	12/22/2020 2:55 PM	File folder	
.vs	1/12/2021 3:27 AM	File folder	
api	12/22/2020 7:04 PM	File folder	
apple	12/22/2020 7:04 PM	File folder	
bank_box	12/22/2020 7:02 PM	File folder	
common	12/22/2020 7:04 PM	File folder	
deal	12/22/2020 7:04 PM	File folder	
manifests	12/22/2020 2:55 PM	File folder	
message	12/22/2020 7:04 PM	File folder	
ndr	12/22/2020 4:41 PM	File folder	
profile	12/22/2020 7:04 PM	File folder	
sharing	12/22/2020 7:04 PM	File folder	
storage	12/22/2020 7:04 PM	File folder	
templates	12/22/2020 2:55 PM	File folder	
.gitignore	12/22/2020 2:55 PM	Text Document	1 KB
azure-pipelines.yml	12/22/2020 2:55 PM	YML File	2 KB
azure-pipelines-1.yml	12/22/2020 2:55 PM	YML File	3 KB
azure-pipelines-2.yml	12/22/2020 2:55 PM	YML File	3 KB
cognito	12/31/2020 3:25 AM	Python File	0 KB
Dockerfile	12/22/2020 2:55 PM	File	2 KB
docusign.pem	12/22/2020 2:55 PM	PEM File	2 KB
k8sver	12/22/2020 2:55 PM	File	1 KB
manage	12/22/2020 2:55 PM	Python File	1 KB
Procfile	12/22/2020 2:55 PM	File	1 KB
README.md	12/22/2020 2:55 PM	MD File	2 KB
requirements	12/22/2020 7:18 PM	Text Document	1 KB
runtime	12/22/2020 2:55 PM	Text Document	1 KB

Windows (C:) > code > ndr_Backend > .git >

<input type="checkbox"/> Name	Date modified	Type	Size
hooks	12/22/2020 2:54 PM	File folder	
info	12/22/2020 2:54 PM	File folder	
logs	12/22/2020 2:55 PM	File folder	
objects	12/22/2020 2:54 PM	File folder	
refs	12/22/2020 2:55 PM	File folder	
config	12/22/2020 2:55 PM	File	1 KB
description	12/22/2020 2:54 PM	File	1 KB
HEAD	12/22/2020 2:55 PM	File	1 KB
index	12/22/2020 2:55 PM	File	26 KB
packed-refs	12/22/2020 2:55 PM	File	5 KB

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1.3.3 *Screen print from Virtual Machine showing NDR frontend code with last updated date 1/13/2021.*

Windows (C:) > code > ndr_frontend >

<input type="checkbox"/> Name	Date modified	Type	Size
index	1/13/2021 2:12 AM	Microsoft Edge HTM...	12 KB
index-embed	1/13/2021 2:12 AM	Microsoft Edge HTM...	11 KB
index-embed-login	1/13/2021 2:12 AM	Microsoft Edge HTM...	11 KB
index	12/23/2020 6:43 PM	JavaScript File	3 KB
apple-app-site-association	12/22/2020 2:56 PM	File	1 KB
azure-pipelines.yml	12/22/2020 2:56 PM	YML File	1 KB
azure-pipelines-1.yml	12/22/2020 2:56 PM	YML File	1 KB
bitbucket-pipelines.yml	12/22/2020 2:56 PM	YML File	1 KB
bower	12/22/2020 2:56 PM	JSON File	2 KB
env-conf	12/22/2020 2:56 PM	JSON File	1 KB
favicon	12/22/2020 2:56 PM	PNG File	19 KB
gulpfile	12/22/2020 2:56 PM	JavaScript File	9 KB
index.tpl	12/22/2020 2:56 PM	Microsoft Edge HTM...	2 KB
index-embed.tpl	12/22/2020 2:56 PM	Microsoft Edge HTM...	1 KB
index-embed-login.tpl	12/22/2020 2:56 PM	Microsoft Edge HTM...	1 KB
package	12/22/2020 2:56 PM	JSON File	2 KB
package-lock	12/22/2020 2:56 PM	JSON File	168 KB
.bowerrc	12/22/2020 2:56 PM	BOWERRC File	1 KB
.gitignore	12/22/2020 2:56 PM	Text Document	1 KB
Procfile	12/22/2020 2:56 PM	File	1 KB
README.md	12/22/2020 2:56 PM	MD File	1 KB
node_modules	1/13/2021 1:46 AM	File folder	
bower_components	12/23/2020 6:34 PM	File folder	
.git	12/22/2020 2:56 PM	File folder	
app	12/22/2020 2:56 PM	File folder	
deploy	12/22/2020 2:56 PM	File folder	
fake_data	12/22/2020 2:56 PM	File folder	
fonts	12/22/2020 2:56 PM	File folder	
images	12/22/2020 2:56 PM	File folder	
libs	12/22/2020 2:56 PM	File folder	
manifests	12/22/2020 2:56 PM	File folder	
ndr-fe	12/22/2020 2:56 PM	File folder	

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Windows (C:) > code > ndr_frontend > .git >

<input type="checkbox"/> Name	Date modified	Type	Size
hooks	12/22/2020 2:56 PM	File folder	
info	12/22/2020 2:56 PM	File folder	
logs	12/22/2020 2:56 PM	File folder	
objects	12/22/2020 2:56 PM	File folder	
refs	12/22/2020 2:56 PM	File folder	
config	12/22/2020 2:56 PM	File	1 KB
description	12/22/2020 2:56 PM	File	1 KB
HEAD	12/22/2020 2:56 PM	File	1 KB
index	12/22/2020 2:56 PM	File	107 KB
packed-refs	12/22/2020 2:56 PM	File	1 KB

1.3.4

Screen print from Virtual Machine showing NDR frontend V2 code with last updated date 1/5/2021

Windows (C:) > code > ndr_frontend_v2 >

<input type="checkbox"/> Name	Date modified	Type	Size
.git	1/3/2021 10:55 PM	File folder	
e2e	12/22/2020 2:57 PM	File folder	
node_modules	1/5/2021 6:04 AM	File folder	
src	12/22/2020 2:57 PM	File folder	
.browserslistrc	12/22/2020 2:57 PM	BROWSERSLISTRC File	1 KB
.editorconfig	12/22/2020 2:57 PM	EDITORCONFIG File	1 KB
.gitignore	12/22/2020 2:57 PM	Text Document	1 KB
angular	12/22/2020 2:57 PM	JSON File	4 KB
karma.conf	12/22/2020 2:57 PM	JavaScript File	2 KB
npm-debug	12/29/2020 3:55 AM	Text Document	4 KB
package	1/4/2021 8:55 PM	JSON File	2 KB
package-lock	1/4/2021 8:55 PM	JSON File	557 KB
README.md	12/22/2020 2:57 PM	MD File	2 KB
tailwind.config	12/22/2020 2:57 PM	JavaScript File	1 KB
tsconfig.app	12/22/2020 2:57 PM	JSON File	1 KB
tsconfig	12/22/2020 2:57 PM	JSON File	1 KB
tsconfig.spec	12/22/2020 2:57 PM	JSON File	1 KB
tslint	12/22/2020 2:57 PM	JSON File	4 KB
webpack.config	12/22/2020 2:57 PM	JavaScript File	1 KB

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Windows (C:) > code > ndr_frontend_v2 > .git >

Name	Date modified	Type	Size
hooks	12/22/2020 2:57 PM	File folder	
info	12/22/2020 2:57 PM	File folder	
logs	12/22/2020 2:57 PM	File folder	
objects	1/3/2021 10:54 PM	File folder	
refs	12/22/2020 2:57 PM	File folder	
config	1/3/2021 10:55 PM	File	1 KB
description	12/22/2020 2:57 PM	File	1 KB
FETCH_HEAD	1/3/2021 10:54 PM	File	1 KB
HEAD	1/3/2021 10:55 PM	File	1 KB
index	1/3/2021 10:55 PM	File	19 KB
ORIG_HEAD	1/3/2021 10:54 PM	File	1 KB
packed-refs	12/22/2020 2:57 PM	File	1 KB

1.3.5

Screen print from Virtual Machine showing NDR test1 frontend V2 code with last updated date 1/5/2021

Windows (C:) > code > test1 > ndr_frontend_v2 >

Name	Date modified	Type	Size
.git	1/8/2021 4:14 AM	File folder	
e2e	1/5/2021 5:16 AM	File folder	
node_modules	1/5/2021 6:17 AM	File folder	
src	1/5/2021 6:53 AM	File folder	
.browserslistrc	1/5/2021 5:16 AM	BROWSERSLISTRC...	1 KB
.editorconfig	1/5/2021 5:16 AM	EDITORCONFIG File	1 KB
.gitignore	1/5/2021 5:16 AM	Text Document	1 KB
{	1/5/2021 5:53 AM	File	0 KB
{this.user	1/5/2021 5:53 AM	Per-User Project O...	0 KB
angular	1/5/2021 5:16 AM	JSON File	4 KB
karma.conf	1/5/2021 5:16 AM	JavaScript File	2 KB
package	1/5/2021 7:39 AM	JSON File	3 KB
package-lock	1/5/2021 6:02 AM	JSON File	628 KB
README.md	1/5/2021 5:16 AM	MD File	2 KB
tailwind.config	1/5/2021 5:16 AM	JavaScript File	1 KB
tsconfig.app	1/5/2021 5:16 AM	JSON File	1 KB
tsconfig	1/5/2021 8:15 AM	JSON File	1 KB
tsconfig.spec	1/5/2021 5:16 AM	JSON File	1 KB
tslint	1/5/2021 5:16 AM	JSON File	4 KB
webpack.config	1/5/2021 5:16 AM	JavaScript File	1 KB

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Windows (C:) > code > ndr_frontend_v2 > .git >				
<input type="checkbox"/> Name	Date modified	Type	Size	
hooks	12/22/2020 2:57 PM	File folder		
info	12/22/2020 2:57 PM	File folder		
logs	12/22/2020 2:57 PM	File folder		
objects	1/3/2021 10:54 PM	File folder		
refs	12/22/2020 2:57 PM	File folder		
config	1/3/2021 10:55 PM	File	1 KB	
description	12/22/2020 2:57 PM	File	1 KB	
FETCH_HEAD	1/3/2021 10:54 PM	File	1 KB	
HEAD	1/3/2021 10:55 PM	File	1 KB	
index	1/3/2021 10:55 PM	File	19 KB	
ORIG_HEAD	1/3/2021 10:54 PM	File	1 KB	
packed-refs	12/22/2020 2:57 PM	File	1 KB	

1.4 On page 20 of the report, it summarizes that there were no decompiled source comments made to the Azure DevOps repository after 9/26/2021. It further states that there were no deletes made in the NDRs Azure DevOps repositories, and that the repository logs cannot be altered. In support, a screen print of the “Dealtable Development” branch is shown. Based upon that one screen print, is your assessment limited to that no decompiled code was deposited to the “Dealtable Development” branch, and that branch’s repository log cannot be altered?

1.4.1 Reviewers Comments

1. I checked all the branches and there are no deleted branches
<https://docs.microsoft.com/en-us/azure/devops/repos/git/restore-deleted-branch?view=azure-devops>
2. What I referred to as repository logs is actually Branch history which cannot be altered in : Azure DEVOPS: <https://github.com/MicrosoftDocs/azure-devops-docs/issues/4295>

Reviewer Summary

1. It is my assessment that there was no code deposited to any of the branches in the NDR-2021 source code repo after 9/26/2021.
2. My assessment is not limited to the Development Branch since my review covered all the active NDR Azure DEVOPS projects and all active branches in each project.
3. It is also my assessment that the branch history cannot be altered in the Azure DEVOPS repos.


1.4.2 *Screen print showing all branches in the NDR 2021 source code repository.*

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	<div><div>Dealtable / NDR-2021 / Repos / Branches / NDR-2021</div><div><div>Branches</div><div>Mine All <u>Stale</u></div><div><div><div>Search</div><div>New branch</div></div><div><div>Search branch name</div></div></div><table><thead><tr><th>Branch</th><th>Commit</th><th>Author</th><th>Authored Date</th><th>Behind Ahead</th><th>Status</th><th>Pull Request</th></tr></thead><tbody><tr><td>dealtable-pipeline-01</td><td>4151622b</td><td>David Delorge</td><td>Feb 1, 2021</td><td>39 1</td><td>succeeded</td><td>6</td></tr><tr><td>Debtorg David J</td><td>78e88df7</td><td>Justin Rivera</td><td>Apr 27, 2021</td><td>0 0</td><td></td><td></td></tr><tr><td>master</td><td>78e88df7</td><td>Justin Rivera</td><td>Apr 27, 2021</td><td></td><td></td><td></td></tr><tr><td>onlyofficeintegration</td><td>85f58fb2</td><td>Justin Rivera</td><td>May 11, 2021</td><td>1 27</td><td></td><td>7</td></tr><tr><td>Dealtable-Testing</td><td>387d8f93</td><td>Nobody</td><td>Jun 14, 2021</td><td>1 38</td><td></td><td></td></tr><tr><td>Ryan</td><td>387d8f93</td><td>Nobody</td><td>Jun 14, 2021</td><td>1 38</td><td></td><td></td></tr><tr><td>Ryan-Development</td><td>88f1322f</td><td>Nobody</td><td>Jun 24, 2021</td><td>1 41</td><td></td><td>11</td></tr><tr><td>workflows</td><td>85bedf8a</td><td>Nobody</td><td>Jun 28, 2021</td><td>1 53</td><td></td><td></td></tr><tr><td>Global-Dashboard</td><td>6e4cc3a6</td><td>Alekhyia Guntupalli</td><td>Jun 30, 2021</td><td>1 49</td><td></td><td>13</td></tr><tr><td>Dealtable-Development-Notifications</td><td>f4ce883d</td><td>Alekhyia Guntupalli</td><td>Jul 3, 2021</td><td>1 74</td><td></td><td></td></tr><tr><td>Dealtable-Document</td><td>c187a884</td><td>Alekhyia Guntupalli</td><td>Jul 10, 2021</td><td>1 77</td><td></td><td></td></tr><tr><td>Dealtable-fixer-0710</td><td>5d9d5d72</td><td>Alekhyia Guntupalli</td><td>Jul 20, 2021</td><td>1 123</td><td></td><td></td></tr><tr><td>Dealtable-changes</td><td>ab4ae883</td><td>Alekhyia Guntupalli</td><td>Jul 23, 2021</td><td>1 135</td><td></td><td></td></tr><tr><td>Dealtable-Development</td><td>baac291f</td><td>Nobody</td><td>Sep 26, 2021</td><td>1 149</td><td></td><td></td></tr></tbody></table></div></div>	Branch	Commit	Author	Authored Date	Behind Ahead	Status	Pull Request	dealtable-pipeline-01	4151622b	David Delorge	Feb 1, 2021	39 1	succeeded	6	Debtorg David J	78e88df7	Justin Rivera	Apr 27, 2021	0 0			master	78e88df7	Justin Rivera	Apr 27, 2021				onlyofficeintegration	85f58fb2	Justin Rivera	May 11, 2021	1 27		7	Dealtable-Testing	387d8f93	Nobody	Jun 14, 2021	1 38			Ryan	387d8f93	Nobody	Jun 14, 2021	1 38			Ryan-Development	88f1322f	Nobody	Jun 24, 2021	1 41		11	workflows	85bedf8a	Nobody	Jun 28, 2021	1 53			Global-Dashboard	6e4cc3a6	Alekhyia Guntupalli	Jun 30, 2021	1 49		13	Dealtable-Development-Notifications	f4ce883d	Alekhyia Guntupalli	Jul 3, 2021	1 74			Dealtable-Document	c187a884	Alekhyia Guntupalli	Jul 10, 2021	1 77			Dealtable-fixer-0710	5d9d5d72	Alekhyia Guntupalli	Jul 20, 2021	1 123			Dealtable-changes	ab4ae883	Alekhyia Guntupalli	Jul 23, 2021	1 135			Dealtable-Development	baac291f	Nobody	Sep 26, 2021	1 149		
Branch	Commit	Author	Authored Date	Behind Ahead	Status	Pull Request																																																																																																				
dealtable-pipeline-01	4151622b	David Delorge	Feb 1, 2021	39 1	succeeded	6																																																																																																				
Debtorg David J	78e88df7	Justin Rivera	Apr 27, 2021	0 0																																																																																																						
master	78e88df7	Justin Rivera	Apr 27, 2021																																																																																																							
onlyofficeintegration	85f58fb2	Justin Rivera	May 11, 2021	1 27		7																																																																																																				
Dealtable-Testing	387d8f93	Nobody	Jun 14, 2021	1 38																																																																																																						
Ryan	387d8f93	Nobody	Jun 14, 2021	1 38																																																																																																						
Ryan-Development	88f1322f	Nobody	Jun 24, 2021	1 41		11																																																																																																				
workflows	85bedf8a	Nobody	Jun 28, 2021	1 53																																																																																																						
Global-Dashboard	6e4cc3a6	Alekhyia Guntupalli	Jun 30, 2021	1 49		13																																																																																																				
Dealtable-Development-Notifications	f4ce883d	Alekhyia Guntupalli	Jul 3, 2021	1 74																																																																																																						
Dealtable-Document	c187a884	Alekhyia Guntupalli	Jul 10, 2021	1 77																																																																																																						
Dealtable-fixer-0710	5d9d5d72	Alekhyia Guntupalli	Jul 20, 2021	1 123																																																																																																						
Dealtable-changes	ab4ae883	Alekhyia Guntupalli	Jul 23, 2021	1 135																																																																																																						
Dealtable-Development	baac291f	Nobody	Sep 26, 2021	1 149																																																																																																						
1.4.3	<p>Screen print showing last updates made to source code in the repository with date 9/26/2021 being the last update for both release and debug deployment folders.</p>																																																																																																									

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Dealtable / NDR-2021 / Repos / Files /  NDR-2021

netcoreapp3.1

Release

netcoreapp3.1

cs

de

es

fr

it

ja

ko

pl

pt-BR

ru

runtimes

tr

zh-Hans

zh-Hant

appsettings.Development.js...

appsettings.json

DealTable.deps.json

DealTable.dll

DealTable.exe

DealTable.pdb

DealTable.runtimeconfig.de...

DealTable.runtimeconfig.json

DealTable.StaticWebAssets...

Dealtable_Development

DealTable / DealTable / bin / Release / netcoreapp3.1

netcoreapp3.1

Contents History

Name	Last change ↓	Commits
DealTable.dll	Sep 26, 2021	beac291f beta Nobody
DealTable.pdb	Sep 26, 2021	beac291f beta Nobody
DealTable.Views.dll	Sep 26, 2021	beac291f beta Nobody
DealTable.Views.pdb	Sep 26, 2021	beac291f beta Nobody
DealTable.deps.json	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Data.Sqlite.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.EntityFrameworkCore.Abstractions.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.EntityFrameworkCore.Design.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.EntityFrameworkCore.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.EntityFrameworkCore.Relational.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.EntityFrameworkCore.Sqlite.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.EntityFrameworkCore.SqlServer.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.Caching.Abstractions.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.Caching.Memory.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.Configuration.Abstractions.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.Configuration.Binder.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.Configuration.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.DependencyInjection.Abstractions.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.DependencyInjection.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.Logging.Abstractions.dll	Sep 23, 2021	25ea836a beta Nobody

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Dealtable / NDR-2021 / Repos / Files / NDR-2021

NDR-2021

.vs

DealTable

.vs

DealTable

.config

Angular

Areas

bin

Debug

netcoreapp3.1

cs

de

es

fr

it

ja

ko

pl

pt-BR

refs

ru

runtimes

tr

wwwroot

zh-Hans

DealTable_Development

DealTable / DealTable / bin / Debug / netcoreapp3.1

netcoreapp3.1

Contents History

Name	Last change	Commits
DealTable.dll	Sep 26, 2021	beac291f beta Nobody
DealTable.pdb	Sep 26, 2021	beac291f beta Nobody
DealTable.Views.dll	Sep 26, 2021	beac291f beta Nobody
DealTable.Views.pdb	Sep 26, 2021	beac291f beta Nobody
DealTable.deps.json	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Data.Sqlite.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.EntityFrameworkCore.Abstractions.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.EntityFrameworkCore.Design.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.EntityFrameworkCore.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.EntityFrameworkCore.Relational.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.EntityFrameworkCore.Sqlite.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.EntityFrameworkCore.SqlServer.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.Caching.Abstractions.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.Caching.Memory.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.Configuration.Abstractions.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.Configuration.Binder.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.Configuration.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.DependencyInjection.Abstractions.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.DependencyInjection.dll	Sep 23, 2021	25ea836a beta Nobody
Microsoft.Extensions.Logging.Abstractions.dll	Sep 23, 2021	25ea836a beta Nobody

1.5	Can entire branches of code be deleted? Would a deleted branch appear in the current branches folder? Was there any attempt to search for an “exact match in deleted branches” for branches “Net Roadshow” or “Net Road Show?” (see, https://docs.microsoft.com/en-us/azure/devops/repos/git/restore-deleted-branch?view=azure-devops).
1.5.1	<div><div>Reviewers Comments</div><div><div>1. Entire branches can be deleted, and deleted branches would show up in the search under deleted branches only if the exact “branch name” is used in the search.</div><div>2. https://docs.microsoft.com/en-us/azure/devops/repos/git/restore-deleted-branch?view=azure-devops</div><div>3. There are no deleted branches in this Azure Repo for branches named “Net Roadshow” and/or “Net Road Show” based on searches completed in the NDR-2021 repo.</div></div></div>

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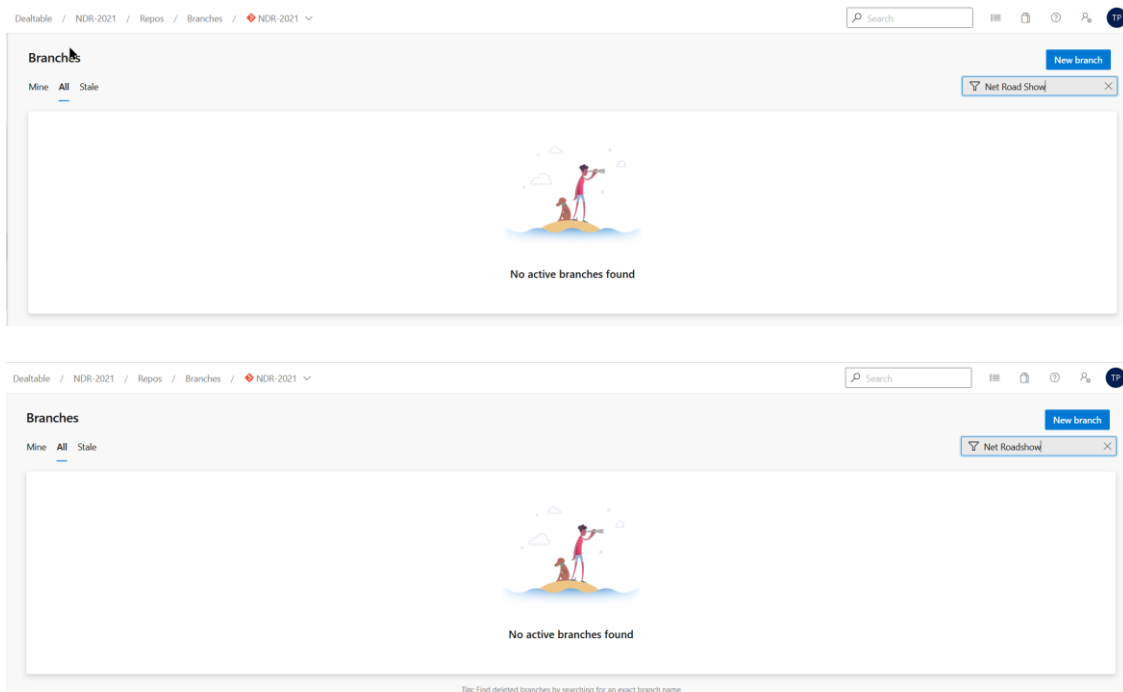
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Reviewer Summary

1. I have assessed that there are no deleted branches in the NDR-2021 repo for branches that match exact names "Net Roadshow" and/or "Net Road Show" based on the exact name search.

1.5.2

Screen print showing search for "Net Roadshow" and "Net Road Show?" following guide provided in the links above.



1.5.3

Microsoft documentation states that deleted branches can be restored anytime.

<https://docs.microsoft.com/en-us/azure/devops/repos/git/restore-deleted-branch?view=azure-devops>

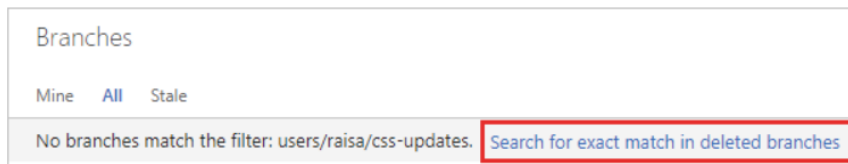
Note

There is no retention policy on deleted branches. A deleted Git branch can be restored at any time, regardless of when it was deleted.

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1. Open your repo on the web and select the **Branches** view.
2. Search for the exact branch name using the **Search all branches** box in the upper right.
3. Click the link to **Search for exact match in deleted branches**. If there is a deleted branch that matches your search, you will be able to see which commit it pointed to when it was deleted, who deleted it, and when it was deleted.



1.5.4 Screen print showing all the branches in the NDR-2021 repository.

Dealtable / NDR-2021 / Repos / Branches / NDR-2021

Search

New branch

Search branch name

Branch	Commit	Author	Authored Date	Behind / Ahead	Status	Pull Request
Dealtable changes	abdae682	Alekhyia Guntupalli	Jul 23, 2021	1 133		
Dealtable Development	beac291f	Nobody	Sep 26, 2021	1 149		
Dealtable Development Notifications	f6ce892d	Alekhyia Guntupalli	Jul 3, 2021	1 24		
Dealtable Document	c187a884	Alekhyia Guntupalli	Jul 10, 2021	1 72		
Dealtable fixes 0710	96d95d72	Alekhyia Guntupalli	Jul 20, 2021	1 133		
Dealtable Testing	387d8f83	Nobody	Jun 14, 2021	1 38		
dealtable-pipeline-01	d151429b	David Delorge	Feb 1, 2021	38 1	✓ Succeeded	6
Delorge David J	78eb8d7f	Justin Rivera	Apr 27, 2021	0 8		
Global Dashboard	6edcc5a8	Alekhyia Guntupalli	Jun 30, 2021	1 49		13
master	78eb8d7f	Justin Rivera	Apr 27, 2021			★
onlyofficeintegration	85f58fb2	Justin Rivera	May 11, 2021	1 22		2
Ryan	387d8f83	Nobody	Jun 14, 2021	1 38		
Ryan-Development	89ff122f	Nobody	Jun 24, 2021	1 41		11
workflows	85bedf8a	Nobody	Jun 28, 2021	1 33		

1.6 If a branch is deleted, are there any logs regarding the commit history?

1.6.1 Reviewers Comments

1. Commit History is stored in the deleted branch and not available unless the deleted branch is restored

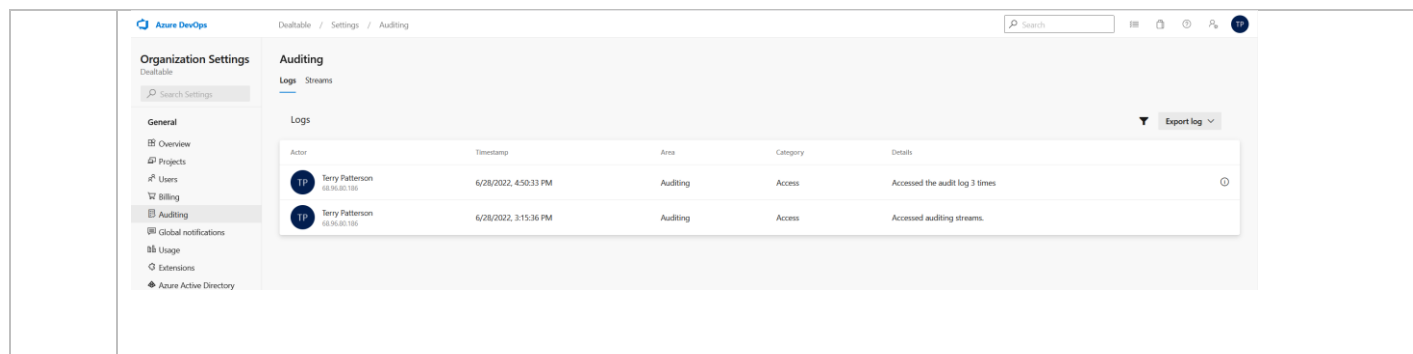
Reviewer Summary

1. I have assessed that there could potentially be deleted branches that I was not able to find without using an exact name match and that any deleted branch commit history will not be available unless the deleted branch is restored.

1.6.2 Print screen showing available Azure DEVOPS Audit Logs

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1.7 Are audit logs available for the creation and deletion of branches?

1.7.1 Reviewers Comments

1. Audit logs do record resource deletion events (see Microsoft link and details below) and are only retained for 90 days.

Reviewer Summary

1. Audit logs for Azure DEVOPS are not available after 90 days so I am unable to determine if there were any audit delete activities for this assessment period September 26,2021 through January 18,2022.

1.7.2 Link and summary of logged events for Azure DevOPS Audit Logs

<https://docs.microsoft.com/en-us/azure/devops/organizations/audit/azure-devops-auditing?view=azure-devops&tabs=preview-page>

Audit changes occur whenever a user or service identity within the organization edits the state of an artifact. You may see events logged for any of the following occurrences:

- permissions changes
- deleted resources
- branch policy changes
- auditing log access and downloads
- and much much more...

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<https://docs.microsoft.com/en-us/azure/devops/organizations/audit/auditing-events?view=azure-devops>

Areas

Area	Description
Auditing	View and download audit logs. Access, create, modify, enable, disable, and delete audit streams.
Billing	Add, change, or remove Azure Subscriptions. Modify billing quantities for Pipelines, Artifacts, and Cloud Load Test usage.
Checks	Create, modify, delete, and track usage of checks including approvals on protected resources in Azure Pipelines (YAML only).
Extension	Install, modify, enable, disable, and uninstall extensions for Extensions Marketplace.
Git	Create, modify, enable, disable, fork, delete and undelete Git repositories in Azure Repos. Bypass PR policies. Change branch policies.

[Git](#) Create, modify, enable, disable, fork, **delete and undelete Git repositories** in Azure Repos. Bypass PR policies. Change branch policies.

1.8	Can branches be permanently deleted without the possibility of restoration? Can Azure DevOps be “rolled-back” to reflect earlier instances in time, where a branch was developed but is no longer accessible?
1.8.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> Branches are always recoverable, there is no retention period for deleted branches. https://docs.microsoft.com/en-us/azure/devops/repos/git/restore-deleted-branch?view=azure-devops Existing branches cannot be rolled back. <p>Reviewer Summary</p> <ol style="list-style-type: none"> Since branches cannot be rolled back (overwritten) I have determined that there is no missing history or code reversal in any of the active branches within the NDR-2021 Azure repository.
1.8.2	<p>Microsoft documentation states that deleted branches can be restore anytime. https://docs.microsoft.com/en-us/azure/devops/repos/git/restore-deleted-branch?view=azure-devops</p> <div> <p>Note</p> <p>There is no retention policy on deleted branches. A deleted Git branch can be restored at any time, regardless of when it was deleted.</p> </div>

1.9	Is it possible that code could have been deployed from NDR’s Azure repository on 1/13/2022, and that the runtime code does not reflect the current code within the Azure repository?
------------	--

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1.9.1 Reviewers Comments

- Code could not have been deployed from the NDRs Azure repository on 1/13/2022 since all the deployed code and artifacts in the Azure DEVOPS would need to have the same date as the deployed runtime code on the website.

Reviewer Summary

- It is my assessment that the latest code on the NDR development web site was not deployed from the NDR-2021 Azure DEVOPS repository since the dates do not match.

1.9.2 Print screen showing Azure DEVOPS repo development branch (latest code in Azure DEVOPS) dated 9/26/21 and outdated runtime (dealtable.exe)

Dealtable / NDR-2021 / Repos / Files / NDR-2021

Contents	History
<div> <div> <div>></div> <div>.config</div> </div> <div> <div>></div> <div>Angular</div> </div> <div> <div>></div> <div>Areas</div> </div> <div> <div>></div> <div>bin</div> </div> <div> <div>></div> <div>Debug</div> </div> <div> <div>></div> <div>Release</div> </div> <div> <div>></div> <div>netcoreapp3.1</div> </div> <div> <div>></div> <div>cs</div> </div> <div> <div>></div> <div>de</div> </div> <div> <div>></div> <div>es</div> </div> <div> <div>></div> <div>fr</div> </div> <div> <div>></div> <div>it</div> </div> <div> <div>></div> <div>ja</div> </div> <div> <div>></div> <div>ko</div> </div> <div> <div>></div> <div>pl</div> </div> <div> <div>></div> <div>pt-BR</div> </div> <div> <div>></div> <div>ru</div> </div> <div> <div>></div> <div>runtimes</div> </div> <div> <div>></div> <div>tr</div> </div> <div> <div>></div> <div>zh-Hans</div> </div> <div> <div>></div> <div>zh-Hant</div> </div> <div> <div></div> <div>appsettings.Development.js...</div> </div> <div> <div></div> <div>appsettings.json</div> </div> <div> <div></div> <div>DealTable.deps.json</div> </div> <div> <div></div> <div>DealTable.dll</div> </div> <div> <div></div> <div>DealTable.exe</div> </div> </div>	<div> <div> <div>2021-11-11</div> <div>Feb 6, 2021</div> <div>5bec5857 File Upload Nobody</div> </div> <div> <div></div> <div>appsettings.Development.json</div> <div>Feb 6, 2021</div> <div>5bec5857 File Upload Nobody</div> </div> <div> <div></div> <div>appsettings.json</div> <div>Aug 2, 2021</div> <div>76bfe366 beta Nobody</div> </div> <div> <div></div> <div>DealTable.deps.json</div> <div>Sep 23, 2021</div> <div>25ea836a beta Nobody</div> </div> <div> <div></div> <div>DealTable.dll</div> <div>Sep 26, 2021</div> <div>beac291f beta Nobody</div> </div> <div> <div></div> <div>DealTable.exe</div> <div>Apr 25, 2021</div> <div>05228356 undo point 6 Nobody</div> </div> <div> <div></div> <div>DealTable.pdb</div> <div>Sep 26, 2021</div> <div>beac291f beta Nobody</div> </div> <div> <div></div> <div>DealTable.runtimeconfig.dev.json</div> <div>Apr 25, 2021</div> <div>05228356 undo point 6 Nobody</div> </div> <div> <div></div> <div>DealTable.runtimeconfig.json</div> <div>Feb 6, 2021</div> <div>5bec5857 File Upload Nobody</div> </div> <div> <div></></div> <div>DealTable.StaticWebAssets.xml</div> <div>Aug 18, 2021</div> <div>dcf8c9da new Nobody</div> </div> <div> <div></div> <div>DealTable.Views.dll</div> <div>Sep 26, 2021</div> <div>beac291f beta Nobody</div> </div> <div> <div></div> <div>DealTable.Views.pdb</div> <div>Sep 26, 2021</div> <div>beac291f beta Nobody</div> </div> <div> <div></div> <div>dotnet-aspnet-codegenerator-design.dll</div> <div>Mar 3, 2021</div> <div>d61e828c Add_user Justin Rivera</div> </div> <div> <div></div> <div>Microsoft.AspNetCore.Cryptography.Internal.dll</div> <div>Aug 18, 2021</div> <div>dcf8c9da new Nobody</div> </div> <div> <div></div> <div>Microsoft.AspNetCore.Cryptography.KeyDerivat...</div> <div>Aug 18, 2021</div> <div>dcf8c9da new Nobody</div> </div> <div> <div></div> <div>Microsoft.AspNetCore.Diagnostics.EntityFrameworkCore...</div> <div>Feb 6, 2021</div> <div>5bec5857 File Upload Nobody</div> </div> <div> <div></div> <div>Microsoft.AspNetCore.Identity.EntityFrameworkCore...</div> <div>Aug 18, 2021</div> <div>dcf8c9da new Nobody</div> </div> <div> <div></div> <div>Microsoft.AspNetCore.Identity.UI.dll</div> <div>Aug 18, 2021</div> <div>dcf8c9da new Nobody</div> </div> <div> <div></div> <div>Microsoft.AspNetCore.Identity.UI.Views.V3.dll</div> <div>Aug 18, 2021</div> <div>dcf8c9da new Nobody</div> </div> <div> <div></div> <div>Microsoft.AspNetCore.Identity.UI.Views.V4.dll</div> <div>Aug 18, 2021</div> <div>dcf8c9da new Nobody</div> </div> <div> <div></div> <div>Microsoft.AspNetCore.Razor.Language.dll</div> <div>Mar 3, 2021</div> <div>d61e828c Add_user Justin Rivera</div> </div> <div> <div></div> <div>Microsoft.Bcl.AsyncInterfaces.dll</div> <div>Feb 6, 2021</div> <div>5bec5857 File Upload Nobody</div> </div> <div> <div></div> <div>Microsoft.Bcl.HashCode.dll</div> <div>Feb 6, 2021</div> <div>5bec5857 File Upload Nobody</div> </div> <div> <div></div> <div>Microsoft.CodeAnalysis.CSharp.dll</div> <div>Feb 6, 2021</div> <div>5bec5857 File Upload Nobody</div> </div> </div>

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Print Screen from Azure APP services for the development web site showing latest runtime code at 1/13/2022 (dealtable.exe)

```

    <!-- App Service Editor -->
    <!-- Console -->
    <!-- Explorer -->
    <!-- File List -->
    <!-- File Details -->
    <!-- File Content -->
  
```

1.10 Page 14 of the report shows a excel spreadsheet of the screen print of code runtime components on the web site. How was this spreadsheet generated? Does it demonstrate any other dates where there was a website build? When was the last date prior to 1/13/2022 where there was a website build?

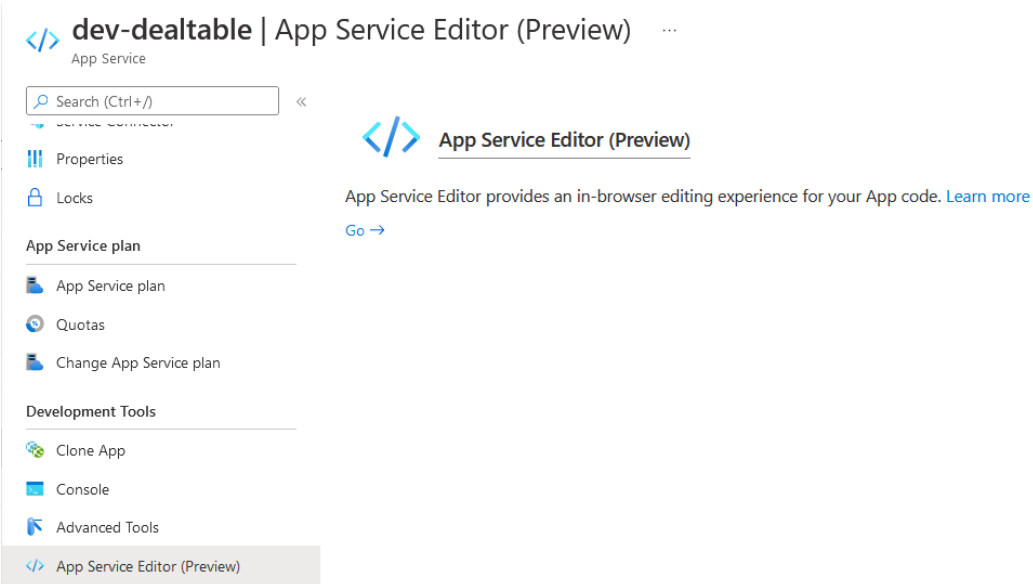
1.10.1 Reviewers Comments

1. NDR Code runtime components are deployed to an Azure Web APP services and the files deployed are then accessible via the Azure Web Portal in the App Services Advanced Editor console (see print screen)
2. I used this raw list from the Advanced Editor to copy/paste into excel so it would be easier to read.
3. Web Site builds deployed from outside of Azure DEVOPS repos or Git repos are not recorded in the Azure Web APP platform Deployment Center or in the Azure deployment logs. [Activity Log - no deployment history \(microsoft.com\)](#)
4. Azure Activity logs are stored for 90 days so I am unable to verify prior deployments and dates.

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	<div>1. I am not able to determine any prior deployment dates to this website from the logs available in Azure Web APP platform Deployment Center or from the Azure Activity Logs.</div>
1.10.2	<div>Print screen showing App Service Editor and output</div> <div></div>

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App Service Editor | dev-dealtable

EXPLORE

- WORKING FILES
- WWWROOT
 - es
 - fr
 - it
 - ja
 - ko
 - pl
 - pt-BR
 - refs
 - ru
 - runtimes
 - tr
 - wwwroot
 - zh-Hans
 - zh-Hant

Console 1

Welcome to the App Service Editor console
Type 'help' for a list of available commands or press 'Ctrl+Space' for assist. Type 'exit' to close a console.

```
> dir
Volume in drive C is Windows
Volume Serial Number is 426D-EF56

Directory of C:\home\site\wwwroot

01/19/2022 07:03 PM <DIR> .
01/19/2022 07:03 PM <DIR> ..
03/23/2021 07:15 PM 168 appsettings.Development.json
01/13/2022 07:09 PM 802 appsettings.json
01/11/2021 11:47 PM 152,968 Azure.Core.dll
03/30/2021 12:58 AM 904,080 Azure.Storage.Blobs.dll
03/30/2021 12:58 AM 78,224 Azure.Storage.Common.dll
12/18/2020 03:32 AM 2,921,520 BouncyCastle.Crypto.dll
08/16/2017 11:51 AM 10,240 Common.Logging.Core.dll
08/16/2017 11:51 AM 39,424 Common.Logging.dll
01/19/2022 07:01 PM <DIR> cs
01/19/2022 07:01 PM <DIR> de
01/13/2022 08:02 PM 277,112 DealTable.deps.json
01/13/2022 08:01 PM 1,477,120 DealTable.dll
01/13/2022 08:01 PM 174,592 DealTable.exe
01/13/2022 08:01 PM 398,184 DealTable.pdb
12/28/2021 09:07 AM 311 DealTable.runtimeconfig.json
01/13/2022 08:02 PM 6,141,440 DealTable.Views.dll
01/13/2022 08:02 PM 649,844 DealTable.Views.pdb
05/14/2021 04:20 AM 5,664,632 DocumentFormat.OpenXml.dll
02/10/2021 03:12 AM 52,624 dotnet-aspnet-codegenerator-design.dll
12/14/2021 03:40 PM 3,268,096 EPPlus.dll
01/19/2022 07:01 PM <DIR> es
01/19/2022 07:01 PM <DIR> fr
01/19/2022 07:01 PM <DIR> it
06/24/2021 05:09 PM 145,920 itext.barcode.dll
06/24/2021 05:09 PM 123,392 itext.forms.dll
06/24/2021 05:09 PM 1,596,928 itext.io.dll
06/24/2021 05:09 PM 948,736 itext.kernel.dll
06/24/2021 05:09 PM 379,904 itext.layout.dll
06/24/2021 05:09 PM 91,136 itext.pdfa.dll
06/24/2021 05:09 PM 95,744 itext.sign.dll
06/24/2021 05:09 PM 334,336 itext.styledxmlparser.dll
06/24/2021 05:09 PM 128,000 itext.svg.dll
01/19/2022 07:01 PM <DIR> ja
01/19/2022 07:01 PM <DIR> ko
10/24/2021 04:04 AM 41,360 Microsoft.AspNetCore.Cryptography.Internal.dll
10/24/2021 04:07 AM 21,392 Microsoft.AspNetCore.Cryptography.KeyDerivation.dll
08/22/2020 02:28 AM 67,960 Microsoft.AspNetCore.Diagnostics.EntityFrameworkCore.dll
10/24/2021 04:08 AM 98,192 Microsoft.AspNetCore.Identity.EntityFrameworkCore.dll
10/24/2021 04:10 AM 203,152 Microsoft.AspNetCore.Identity.UI.dll
```

1.11 Page 24 of the report shows a screen print of the Visual Studio publishing methods on the virtual machines. Are there any logs on the virtual machine's Visual Studio that demonstrate Ryan Saul developed code, committed code to NDR's Azure repository, or published code to the website at any time during his consultant work from December 2020 through his termination in January 2022?

1.11.1 Reviewers Comments

1. Ryan Sauls repo folder on the Virtual Machine is empty and there are no logs available to assess if code was committed from this Virtual Machine any time after 1/18/21.

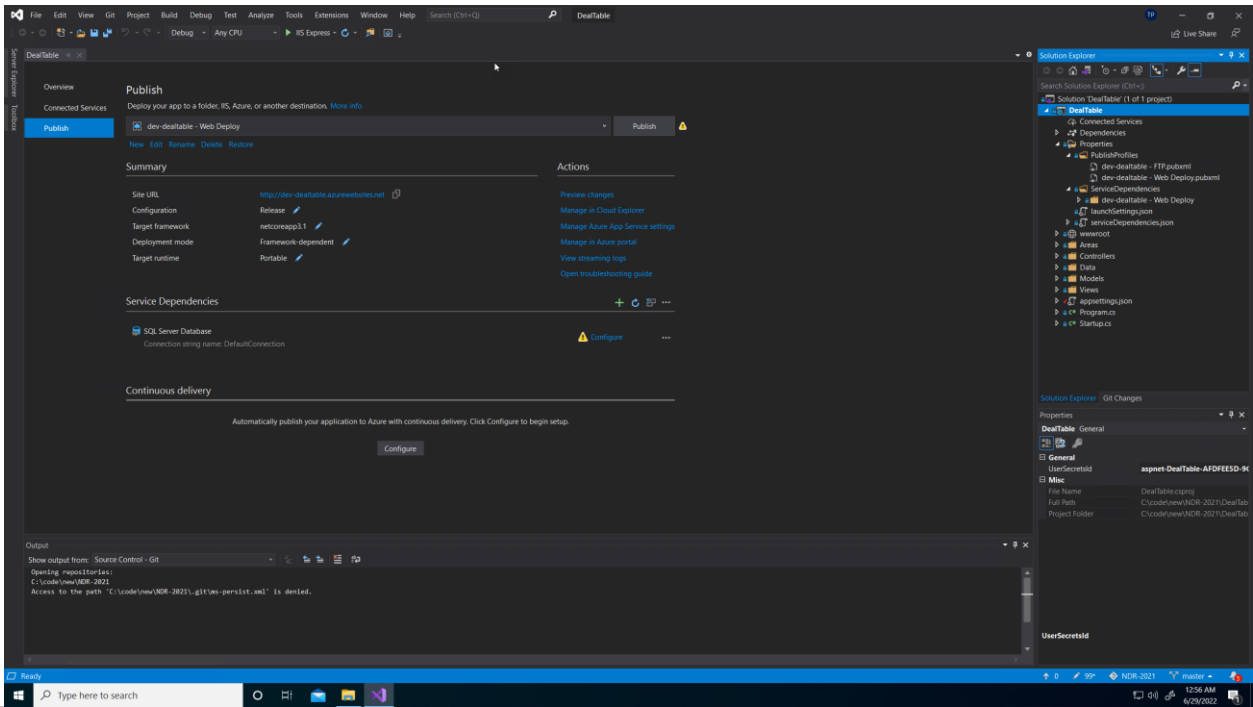
Reviewer Summary

1. It is my assessment that Ryan did not use this Virtual Machine to develop code, commit code to NDRs repository or publish code from this Virtual Machine any time after 1/18/21 unless the folder and code he used was deleted from the Virtual Machine before I started my review.

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1.11.2 Print screen showing publishing methods used on 1/18/2021 to deploy code directly to the Azure Web APP bypassing Azure Repo deployments.



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The following responses address questions included in the Case 1:22-cv-02299-LGS Document 51 Filed 06/14/22.

Ref No	Description Reference Link Screen Print
2.1	Review, assess, and report on the time, frequency and participants involved in MS teams daily scrub meetings held between September 26,2021 and January 18,2022.
2.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. My original assessment did not find the team site meetings since the search criteria I used was restricted to individual user accounts and did not include the keyword and site owner. 2. I updated the eDiscovery search to include a search term keyword for team meetings and included the team site owner in the search criteria. 3. After updating and rerunning the eDiscovery search, I was able to confirm that there were regular team meetings held for this project between September 26,2021 and January 18,2022 <p><u>Reviewer Summary</u></p> <ol style="list-style-type: none"> 1. I have assessed Ryan Saul communicated regularly and participated in regular teams' meetings between September 26,2021 and January 18,2022.
	<i>Screen Print of content search criteria</i>

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team-meetings

Summary

Search statistics

Description

team-meetings

Last run on

2022-06-29T15:51:12.593Z

Searched by

Terry Patterson

Search conditions

(cc:(kind=MicrosoftTeams)(recipients:rsaul@dealtable.com)(recipients:thomasc@networkdatarooms.com)(recipients:ddelorge@dealtable.onmicrosoft.com)(recipients:chrisc@networkdatarooms.com)

Status

The search is completed
86,936 item(s) (37.05 GB)
152 unindexed items, 844.78 MB
15 mailbox(es)
All sites

Actions

Review sample

Close

Screen print of modified Search terms

▼ Locations: All

☒ All locations

Date	Meeting Type	Attendees	Time / Duration
9/27/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2:29pm UCT 11.47 minutes
9/27/21	Ad Hoc Meeting	Ryan Saul, David Delorge, Thomas Concannon	10:42pm UCT 20.03 minutes
9/27/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	11.29pm UCT 46.30 minutes

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9/27/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.29pm UCT 11.47 minutes
9/27/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	11:18am UCT 0.45 minutes
9/27/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	11.29pm UCT 46.30 minutes
9/28/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	7.26am UCT 29.54 minutes
9/28/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.01pm UCT 3.41 minutes
9/28/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	8.08pm UCT 38.45 minutes
9/28/22	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	10.27pm UCT 7.34 minutes
9/29/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2pm UCT 19.48 minutes
9/30/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2pm UCT 30.59 minutes
9/30/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	10.29PM UCT 6.06 minutes
10/1/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2pm UCT 7.16 minutes
10/1/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	10.30pm UCT 13.57
10/4/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	1.22pm UCT 10.45 minutes
10/4/21	Teams Meeting	Ryan Saul, Thomas Concannon	10.27pm UCT 1.27.28 hours
10/5/21	Teams Meeting	Ryan Saul, David Delorge	1.57pm UCT 5.07 minutes
10/5/21	Teams Meeting	Ryan Saul, Thomas Concannon	10.27pm UCT 50.37 minutes
10/6/21	Teams Meeting	Ryan Saul, David Delorge	2.00pm UCT 24.34 minutes
10/6/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	10.28pm UCT 52.18 minutes
10/7/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	1.58PM UCT 20.01 minutes
10/7/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.23PM UCT 21.53 minutes
10/7/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	10.40pm UCT 7.52 minutes
10/8/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.00pm UCT 13.36 minutes
10/8/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.28pm UCT 6.17 minutes
10/8/21	Teams Meeting	Ryan Saul, Thomas Concannon	10.28pm UCT 38.48
10/11/21	Teams Meeting	Ryan Saul, David Delorge	2.02pm UCT 3.32 minutes
10/12/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.01pm UCT 2.44 minutes
10/12/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	10.30pm UCT 31.23 minutes

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10/13/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.ppm UCT 5.14 minutes
10/13/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	10.30pm UCT 15.17 minutes
10/14/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.00pm UCT 10.07 minutes
10/14/21	Scheduled Meeting	Ryan Saul, David Delorge, Thomas Concannon Keith Villanueva (networkfinancialprint.com)	4.29pm UCT 1.30.17 hours
10/14/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	10.30pm UCT 27.43 minutes
10/15/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	1.59pm UCT 5.00 minutes
10/15/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	10.29pm UCT 11.31 minutes
10/18/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	10.30pm UCT 30.49 minutes
10/20/21	Teams Meeting	Ryan Saul, Thomas Concannon	1.59pm UCT 5.17 minutes
10/20/21	Teams Meeting	Ryan Saul, Thomas Concannon	8.02pm UCT 1.07.33 hours
10/20/21	Teams Meeting	Ryan Saul, Thomas Concannon	11pm UCT 7.48 minutes
10/20/21	Teams Meeting	Ryan Saul, Thomas Concannon	1.55pm 7.43 minutes
10/21/21	Teams Meeting	Ryan Saul, Thomas Concannon	6.30pm UCT 48.07 minutes
10/21/21	Teams Meeting	Ryan Saul, Thomas Concannon	8.53pm UCT 1.02.24 hours
10/22/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	1.59pm UCT 13.05 minutes
10/22/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	10.31pm UCT 34.55 minutes
10/25/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.08pm UCT 5.23 minutes
10/26/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.00pm UCT 10.02 minutes
10/27/21	Teams Meeting	Ryan Saul, Thomas Concannon	1.58pm UCT 4.19 minutes
10/27/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	10.57pm UCT 20.05 minutes
10/28/21	Teams Meeting	Ryan Saul, David Delorge	1.53pm UCT 15.25 minutes
10/29/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.00pm UCT 7.31 minutes
10/29/21	Teams Meeting	Ryan Saul, Thomas Concannon	10.27pm 18.39 minutes
11/1/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	1.59pm UCT 8.02 minutes
11/2/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.00pm UCT 4.27 minutes
11/3/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.00pm UCT 14.35 minutes
11/3/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	10.16pm UCT 20.03 minutes

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11/4/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	10.45pm UCT 11.30 minutes
11/5/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	1.59pm UCT 2.43 minutes
11/8/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.58pm UCT 15.21 minutes
11/8/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	11.29pm UCT 25.12 minutes
11/9/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.59pm UCT 8.00 minutes
11/10/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	3.01pm UCT 21.26 minutes
11/10/21	Teams Meeting	Ryan Saul, David Delorge	11.26pm UCT 35.04 minutes
11/11/21	Teams Meeting	Ryan Saul, David Delorge	3.00pm UCT 15.17 minutes
11/11/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	11.30pm UCT 18.28 minutes
11/12/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	3.01pm UCT 3.03 minutes
11/12/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	11.31pm UCT 3.16 minutes
11/15/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.58pm UCT 13.45 minutes
11/15/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	11:30pm UCT 49.40 minutes
11/16/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	3.00pm UCT 8.49 minutes
11/16/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	8:40am UCT 49.40 minutes
11/17/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.59pm UCT 12.07 minutes
11/17/21	Teams Meeting	Ryan Saul, Thomas Concannon	11.35pm UCT 43.31 minutes
11/18/21	Teams Meeting	Ryan Saul, Thomas Concannon	3.01pm UCT 9.26 minutes
11/18/21	Teams Meeting	Ryan Saul, Thomas Concannon	11.31pm UCT 25.33 minutes
11/19/21	Teams Meeting	Ryan Saul, Thomas Concannon	3.01pm UCT 1.59 minutes
11/22/21	Teams Meeting	Ryan Saul, Thomas Concannon	3.01pm UCT 4.57 minutes
11/22/21	Teams Meeting	Ryan Saul, Thomas Concannon	11.30pm UCT 59.24 minutes
11/23/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	3.01pm UCT 6.17 minutes
11/23/21	Ad Hoc Meeting	Ryan Saul, David Delorge, Thomas Concannon	10:40pm 50.19 minutes
11/24/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	3.0pm UCT 2.01 minutes
11/24/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	11.28pm UCT 7.44 minutes
11/26/21	Teams Meeting	Ryan Saul, Thomas Concannon	3.00pm UCT 2.42 minutes

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11/26/21	Teams Meeting	Ryan Saul, Thomas Concannon	11.31pm UCT 6.30 minutes
11/29/21	Teams Meeting	Ryan Saul, Thomas Concannon	3.01pm UCT 1.49 minutes
11/30/21	Teams Meeting	Ryan Saul, Thomas Concannon	2.59pm UCT 6.51 minutes
12/1/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	4.41pm UCT 28.03 minutes
12/2/21	Teams Meeting	Ryan Saul, Thomas Concannon	1.14pm UCT 19.06 minutes
12/2/21	Teams Meeting	Ryan Saul, Thomas Concannon	1.39pm UCT 32.41 minutes
12/2/21	Teams Meeting	Ryan Saul, Thomas Concannon	3.01pm UCT 1.14 minutes
12/2/21	Teams Meeting	Ryan Saul, Thomas Concannon	11.43pm UCT 28.24 minutes
12/6/21	Teams Meeting	Ryan Saul, Thomas Concannon	1.29 minutes
12/8/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	3.59pm UCT 3.06 minutes
12/9/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.59pm UCT 11.03 minutes
12/9/21	Teams Meeting	Ryan Saul, Thomas Concannon	11.30pm UCT 30.22 minutes
12/13/21	Teams Meeting	Ryan Saul, Thomas Concannon	2.59pm UCT 6.13 minutes
12/14/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	2.59pm UCT 3.29 minutes
12/14/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	8.07pm UCT 12.15 minutes
12/16/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	4pm UCT 5.38 minutes
12/16/21	Teams Meeting	Ryan Saul, Thomas Concannon	11.31pm UCT 38.16 minutes
12/17/21	Teams Meeting	Ryan Saul, Thomas Concannon	4.02pm UCT 5.22 minutes
12/20/21	Teams Meeting	Ryan Saul, Thomas Concannon	3.00pm UCT 4.13 minutes
12/20/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	11.31pm UCT 24.41 minutes
12/21/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	3pm UCT 2.23 minutes
12/21/21	Teams Meeting	Ryan Saul, David Delorge	11.31pm UCT 9.23 minutes
12/22/21	Teams Meeting	Ryan Saul, Thomas Concannon	3.00pm UCT 11.26 minutes
12/22/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	7.53pm UCT 1.16.49 hours
12/22/21	Teams Meeting	Ryan Saul, Thomas Concannon	11:42pm UCT 12.14 minutes
12/24/21	Teams Meeting	Ryan Saul, Thomas Concannon	4.03pm UCT 1.59 minutes
12/27/21	Teams Meeting	Ryan Saul, Thomas Concannon	4.00pm UCT 9.49 minutes

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	12/27/21	Teams Meeting	Ryan Saul, Thomas Concannon	11.30pm UCT 45.43 minutes
	12/29/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	5.38pm UCT 0.58 minutes
	12/29/21	Teams Meeting	Ryan Saul, Thomas Concannon, Chris Concannon	9.58pm UCT 1.40.39 hours
	12/29/21	Teams Meeting	Ryan Saul, Thomas Concannon, Chris Concannon	11.39pm UCT 17 minutes
	12/30/21	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	11.44pm UCT 17.44 minutes
	1/3/22	Teams Meeting	Ryan Saul, David Delorge, Thomas Concannon	11.25pm UCT 5.26 minutes
	1/4/22	Teams Meeting	Ryan Saul, Thomas Concannon	2.59pm UCT 11.00 minutes
	1/7/22	Teams Meeting	Ryan Saul, Thomas Concannon	44.51 minutes
	1/10/22	Teams Meeting	Ryan Saul, Thomas Concannon	4.00pm UCT 7.00 minutes
	1/12/22	Teams Meeting	Ryan Saul, Thomas Concannon, Chris Concannon	4.46pm 11.09 minutes
	1/13/21	Teams Meeting	Ryan Saul, Thomas Concannon	2.58pm UCT 11.21 minutes
	1/14/21	Teams Meeting	Ryan Saul, Thomas Concannon	3.00pm UCT 50.14 minutes
	1/17/22	Teams Meeting	Ryan Saul, Thomas Concannon	2.57pm UCT 8.39 minutes
	1/18/21	Teams Meeting	Ryan Saul, Thomas Concannon, Chris Concannon	8.26pm UCT 17.30 minutes